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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/877,622	06/08/2001	Qianjun Liu	4143/CIP-1	2232
7590 01/10/2006		EXAMINER		
Harris Zimmerman			NGUYEN, JENNIFER T	
Law Offices of	Harris Zimmerman			
Suite 710			ART UNIT	PAPER NUMBER
1330 Broadway			2674	
Oakland, CA 94612-2506			DATE MAII ED: 01/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)				
	09/877,622	LIU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jennifer T. Nguyen	2674				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08 Ju	ne 2001.					
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· <u> </u>	, —					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	, , , , , , , , , , , , , , , , , , , ,					
. 4)⊠ Claim(s) <u>1-5,13,16-19 and 21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>13,16,17,19 and 21</u> is/are allowed.						
6)⊠ Claim(s) <u>1-5, 18</u> is/are rejected.						
· · · <u> </u>						
	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	_					
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P	ate atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

1. This Office action is responsive to amendment filed on 10/13/05.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 5, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (Patent No. US 6,476,799) in view of Kahn et al. (Patent No. US 6,404,416).

Regarding claims 1 and 18, referring to Figs. 1-4, Lee teaches a touch sensing system for identifying at least one active touch stimulating device (100), an apparatus for powering the active touch stimulating device (100) comprising:

a touch sensing area (10) in which said at least one active touch stimulating device (100) operates;

a transducer (20) disposed operatively associated with said touch sensing area (10) for transmitting a power signal to said at least one active touch stimulating devices (100);

each of said active touch stimulating devices (100) including means for receiving said power signal and converting said power signal to electrical operating power for said active touch stimulating device (100);

said transducer (20) includes a first antenna (i.e., surrounding coils) extending about the perimeter of said touch sensing area (10) and further including means for connecting said power

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signal to said first antenna to generate an EM power field across said touch sensing area (col. 3, lines 29-67, col. 4, lines 1-9, and col. 6, lines 9-45).

Lee differs from claims 1 and 18 in that he does not specifically teaches the touch stimulating device includes touch signaling means incorporating spread spectrum signals.

Kahn teaches a touch stimulating device includes touch signaling means incorporating spread spectrum signals (col. 9, lines 1-7, col. 10, lines 23-28, col. 19, lines 32-33).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the spread spectrum signals as taught by Kahn in the system of Lee in order to decrease the interference to other, achieve the privacy and reduce noise.

Regarding claim 2, Lee further teaches at least one touch stimulating device (100) includes a second antenna (110) adapted to receive power from said EM field within said touch sensing area (10) (col. 6, lines 9-45).

Regarding claim 3, Lee further teaches second antenna (110) is a resonant antenna tuned to the frequency of said EM field (col. 6, lines 9-45).

Regarding claim 5, Lee further teaches the resonant antenna (110) includes an inductor coil (L2) and a capacitor (C1) connected to be tuned to the frequency of said EM field (col. 6, lines 9-45).

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (U.S. Patent No. 6,476,799) in view of Kahn et al. (Patent No. US 6,404,416) and further in view of Katsurahira et al. (U.S. Patent No. 5,682,019).

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Regarding claim 4, the combination of Lee and Kahn differs from claim 4 in that it does not specifically teach rectifying means connected to the output of said resonant antenna to generate operating power for said active touch stimulating device.

However, referring to Figs. 1 and 4, Katsurahira teaches rectifying means (19) connected to the output of said resonant antenna (11, 12) to generate operating power for said active touch stimulating device (col. 2, lines 33-35).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the rectifying means connected to the output of said resonant antenna to generate operating power for said active touch stimulating device as taught by Katsurahira in the system of the combination of Lee and Kahn in order to provide the DC power for operating the touch input device.

- 5. Claims 13, 16, 17, 19 and 21 are allowed.
- 6. Applicant's arguments with respect to claims 1-5 and 18 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer T. Nguyen whose telephone number is 571-272-7696. The examiner can normally be reached on Mon-Fri: 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick N. Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer Nguyen 1/5/06

XIAO WU
PRIMARY EXAMINER

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